

1-57. (Cancelled)

58. (Currently Amended) A method for anastomosing a first hollow tissue structure to a second hollow tissue structure having an opening, the method comprising the steps of:

providing an anastomosis device comprising at least one tissue securing element having a first end and a second end, the tissue securing element comprised of a material capable of being biased from an unbiased configuration to a biased configuration;

passing at least the first end of the at least one tissue securing element through the first hollow tissue structure;

holding the at least one tissue securing element in the biased configuration;

inserting at least the first end of the at least one tissue securing element through an opening in a second hollow tissue structure while the tissue securing element is in the biased configuration; and

permitting the tissue securing element to move from the biased configuration to the unbiased configuration such that the first end and the second end of the tissue securing element compress a portion of the end of a first hollow tissue structure and a portion of the second hollow tissue structure adjacent to the opening.

59. (Previously Presented) The method of claim 58, wherein the first hollow tissue structure is a vascular conduit and the second hollow body structure is an aorta.

60. (Previously Presented) The method of claim 58, wherein the permitting step is performed such that the first end and the second end of the tissue securing element compress a portion of the end of a first hollow tissue structure and a portion of the second hollow tissue structure adjacent to the opening between the first end and the second end.

61. (Previously Presented) The method of claim 58, comprising everting the end of the first hollow tissue structure.

62. (Previously Presented) The method of claim 61, wherein the everting step is performed prior to the inserting step.

63. (Previously Presented) The method of claim 58, wherein the permitting step is performed such that the first end and the second end of the tissue securing element compress a portion of the everted end of the first hollow tissue structure and a portion of the second hollow tissue structure adjacent to the opening between the first end and the second end.

64. (Previously Presented) The method of claim 58, comprising the step of passing the at least one tissue securing element through tissue adjacent the opening of the second hollow tissue structure.

65. (Previously Presented) The method of claim 58, comprising the step of passing the at least one tissue securing element through the first hollow tissue structure.

66. (Previously Presented) The method of claim 65, wherein the at least one tissue securing element is passed through the first hollow tissue structure from the outer surface of the first hollow tissue structure to the inner surface of the first hollow tissue structure.

67. (Previously Presented) The method of claim 66, comprising the step of passing the at least one tissue securing element through the second hollow tissue structure at a location adjacent the opening.

68. (Previously Presented) The method of claim 58, wherein the at least one tissue securing element comprises a plurality of tissue securing elements and comprising the step of passing the plurality of tissue securing elements through the first hollow tissue structure.

69. (Previously Presented) The method of claim 68, wherein the plurality of tissue securing elements are passed through the first hollow tissue structure at spaced apart locations.

70. (Previously Presented) The method of claim 61, wherein the at least one tissue securing element comprises a plurality of tissue securing elements, and comprising the step of passing the plurality of tissue securing elements through the first hollow tissue structure following the everting step.

71. (Previously Presented) The method of claim 70, wherein the step of passing the plurality of tissue securing elements through the first hollow tissue structure is completed prior to inserting at least the first end of the at least one tissue securing element through the opening in the second hollow tissue structure.